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Senior Full-Stack Engineer (Java, React, AI/LLM)

Summary

Senior Full-Stack Software Engineer with 10+ years of experience in Java, Spring Boot, distributed systems and cloud-native applications. Commercial React and TypeScript experience in enterprise software, with recent hands-on development of Python AI agents, MCP tools, RAG and AWS Bedrock integrations. Strong background in technical leadership, Kubernetes, CI/CD, and production reliability. Recent work includes GenAI applications and AI-assisted development workflows.

TECHNICAL SKILLS:

- Languages: Java (6–25), Kotlin, Python, TypeScript, JavaScript, SQL
- Backend: Spring Boot, Spring Framework, Java EE, REST APIs, gRPC, JAX-RS, JDBC, JSP/Servlets, Apache Camel
- Frontend: React, TypeScript, Vite, HTML, CSS
- AI / LLM: Strands Agents, AWS Bedrock AgentCore, FastMCP, MCP, RAG, Bedrock Knowledge Bases, S3 Vectors, LLM tool calling, DuckDB, Promptfoo; model fine-tuning (independent volunteer project)
- Cloud & DevOps: AWS (EC2, S3, EKS, CloudFront), Azure AKS, Kubernetes, Docker, Azure DevOps, CI/CD
- Messaging & Data: Kafka, ActiveMQ, Redis, ClickHouse, PostgreSQL, Elasticsearch, Neo4j, MongoDB, MS SQL Server
- Monitoring & Testing: Grafana, Prometheus, JUnit, Mockito, TDD practices
- Operating Systems: Linux, Windows

Professional Career

AI Solutions Architect / Senior Backend Engineer

June 2026 – Present | Alicante, Spain

Project info:

AI-powered real-estate analytics assistant using publicly available Spanish housing statistics. Users can ask natural-language questions about property prices, regional trends and official datasets. The agent routes queries to structured data or document retrieval.

Responsibilities:

- Built a Python-based agent service with Strands Agents and AWS Bedrock AgentCore, integrated with a FastMCP server over Streamable HTTP.
- Implemented LLM tool calling and validated DuckDB queries across seven official housing datasets.
- Developed RAG document retrieval with Amazon Bedrock Knowledge Bases and S3 Vectors; connected model-driven responses to structured statistics and contextual explanations.
- Automated data ingestion with change detection, validation and atomic dataset replacement.
- Worked on service architecture, cloud deployment and a React-based website with an embeddable chatbot widget.

Software and technologies:

Python, Strands Agents, FastMCP, MCP, AWS Bedrock AgentCore, Bedrock Knowledge Bases, S3 Vectors, DuckDB, RAG, LLM Tool Calling, AWS EC2, Promptfoo, React

Senior Software Engineer

October 2024 – June 2026

Project info:

High-throughput backend services for a large-scale online technology platform.

Responsibilities:

- Refactored core services to improve maintainability and runtime performance.
- Led rearchitecture of services with Java 25, Spring Boot 4 and Virtual Threads.
- Developed a Kafka-to-Redis service processing approximately 7,000 records per second.
- Built scheduled CSV/XLSX exports streaming large ClickHouse datasets to Amazon S3.
- Improved production monitoring and performance investigation using Grafana.

Software and technologies:

Java 17–25, Spring Boot 3.x–4.x, gRPC, PostgreSQL, Elasticsearch, Neo4j, Grafana, Apache Kafka, AWS S3, EKS, CloudFront, ClickHouse, Redis

Senior Full-Stack Engineer

November 2022 – October 2024

Project info:

Enterprise services and transaction-monitoring interfaces with cloud-based deployments.

Responsibilities:

- Migrated legacy services to Spring Boot and developed a Data Copy application for environment synchronization.
- Built a React and TypeScript alert dashboard with filtering, transaction details, API integration and UI state management.
- Optimized JVM settings for resource efficiency in Kubernetes.
- Led CI/CD migration to Azure DevOps and supported developer adoption of the new workflow.

Software and technologies:

Java 11–21, Kotlin, Spring Boot, React, TypeScript, Vite, Amazon S3, Azure AKS, PostgreSQL, Azure DevOps

Senior Software Engineer

March 2021 – October 2022

Project info:

A core financial-instrument processing platform for front-office operations.

Responsibilities:

- Implemented service monitoring with Prometheus and Grafana for production troubleshooting.
- Modernized infrastructure and upgraded core application components.
- Refactored legacy services and delivered platform enhancements.
- Integrated Bloomberg data services for financial-instrument processing.

Software and technologies:

AWS, Java 8–11, Spring Boot, Kafka, Docker, MS SQL Server, Prometheus, Grafana

Senior Software Engineer

December 2019 – February 2021

Project info:

IHS Markit platform supporting financial data and trade processing for derivatives, foreign exchange and loans.

Responsibilities:

- Developed enterprise integrations using Spring and ActiveMQ.

- Implemented new backend features and improved application stability.

Software and technologies:

Java 8, Spring, Apache Camel, ActiveMQ, Docker

Software Engineer

January 2019 – December 2019

Project info:

SMC3 logistics and transportation platform.

Responsibilities:

- Contributed to a distributed microservices platform supporting logistics workflows.

Software and technologies:

Java 11, Spring, MongoDB, Docker

Backend Engineer

February 2017 – December 2018

Project info:

Backend services and integrations for a cloud-deployed application.

Responsibilities:

- Developed Java EE backend services and REST APIs on WildFly.
- Integrated asynchronous messaging and MongoDB-backed data services.

Software and technologies:

Java EE 7, WildFly, AMQ, JAX-RS, MongoDB

Java Engineer

September 2015 – January 2017

Project info:

Internal governance and administration system.

Responsibilities:

- Developed server-side modules using Java 6, JSP/Servlets and JDBC.
- Built REST endpoints and deployed applications on Tomcat.

Software and technologies:

Java 6, Tomcat, JAX-RS, JDBC

Additional Project Experience

Volunteer / independent AI project (in development): building a model-assisted brain-activity test analysis workflow, including model fine-tuning and automated interpretation of generated test files. Developing a React interface with planned 3D signal visualization and a multilingual voice/chat agent; the candidate described the agent as built and under testing, with public release pending.

Education

2006 – 2011

Donetsk State University of Management, Ukraine
Master’s Degree in Marketing

Certifications

Azure Solutions Architect Expert (AZ-305); Azure Administrator Associate; Oracle Certified Professional Java 8; Oracle Certified Associate Java 8

Foreign Languages Skills

English: Upper-Intermediate
Ukrainian: Native